

**NOTICE OF PROPOSED REGULATION
BRAZILIAN AIRWORTHINESS DIRECTIVES**

**REPÚBLICA FEDERATIVA DO BRASIL
AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – ANAC
Gerência Geral de Certificação de Produto Aeronáutico**

Reference: NPR/AD 2015-500-01

Date: 24 Apr. 2015

In accordance with the provisions of RBAC 11, The Aeronautical Product Certification Branch (GGCP) is proposing the issuance of a Brazilian Airworthiness Directive applicable to the aeronautical product referred below.

*All the persons interested may send their comments until the date specified in item 2, indicating the **Reference** above, to the following address:*

*National Civil Aviation Agency (ANAC) - Aeronautical Product Certification Branch (GGCP)
Rua Laurent Martins, 209 – Jardim Esplanada II
12.242-431 – São José dos Campos – SP
Phone: 55 12 3203-6600 / E-mail: pac@anac.gov.br*

- 1. Proposer:** Continued Airworthiness Group (PAC) of Aeronautical Product Certification Branch.
- 2. Comments:** Must be received until may 25th 2015.

APPLICABILITY:

This Airworthiness Directive (AD) applies to Embraer S.A. model EMB-500 airplanes with an original airworthiness certificate or original export certificate of airworthiness issued before February 12, 2015.

Note (1): Airplanes with an original airworthiness certificate or original export certificate of airworthiness issued on or after February 12, 2015 must comply with the airworthiness limitations specified as part of the Airworthiness Certification of those airplanes, or in accordance with operations specifications approved under “Regulamento Brasileiro de Aviação Civil” (RBAC) 121 or 135, or an inspection program approved under paragraph 91.409(e) of “Regulamento Brasileiro de Homologação Aeronáutica” (RBHA) 91.

Note (2): This AD requires revisions to certain operator maintenance documents to include new inspections or modification to the existing ones and its respective thresholds and intervals. Compliance with these inspections is required by RBHA 91.403(c). For airplanes that have been previously modified, altered, or repaired in the areas addressed by these inspections, the operator may not be able to accomplish the inspections described in the revisions. In this situation, to comply with RBHA 91.403(c), the operator must request approval for an alternative method of compliance according to paragraph (c) of this AD. The request should include a description of changes to the required inspections that will ensure the continued damage tolerance of the affected structure.

CANCELLATION/REVISION:

Not applicable.

REASON:

This AD was prompted by changes to the airworthiness limitations of the Embraer EMB-500 Aircraft Maintenance Manual (AMM), chapter 4. We are issuing this AD to prevent fatigue cracking, accidental damage, or corrosion in principal structural elements, and possible failure of certain life-limited parts, which could result in reduced structural integrity of the airplane.

REQUIRED ACTION:

This AD requires revisions to certain operator maintenance documents to include new inspections and/or life-limited items replacement.

COMPLIANCE:

Required as indicated below, unless already accomplished.

(a) Revision of maintenance or inspection program

(1) Within 180 days after the effective date of this AD, revise the maintenance or inspection program by incorporating the information described in Revision 13 of the EMB-500 Aircraft Maintenance Manual (AMM), chapter 4 – Airworthiness Limitations; excepted as provided in paragraph (c) of this AD.

(2) The initial compliance time (threshold) for the inspections and/or life-limited items replacement is within the applicable times specified in Revision 13 of the EMB-500 Aircraft Maintenance Manual (AMM), chapter 4 – Airworthiness Limitations, or within 50 flight cycles after the effective date of this AD, whichever occurs later.

(b) Alternative actions and intervals

After accomplishing the actions required by paragraph (a) of this AD, no alternative inspections or inspection intervals may be used unless the alternative inspection or interval is approved as an alternative method of compliance (AMOC) in accordance with the procedures specified in paragraph (c) of this AD.

(c) Alternative Methods of Compliance (AMOC)

A different method or a different compliance time with the requirements of this AD may be used if approved by the General Manager of ANAC's Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP). The AMOC approval letter must specifically reference this AD.

(d) Material incorporated by reference

The EMB-500 Aircraft Maintenance Manual (AMM), chapter 4 – Airworthiness Limitations, revision 13 must be used to do the actions required by this AD, unless the AD specifies otherwise.