AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2019-02-02 **Effective Date: 28 Feb. 2019**

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 da Aviação Civil (RBAC) 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. 2019-02-02 - EMBRAER / 39-1438.

APPLICABILITY:

(a) This Airworthiness Directive (AD) applies to Embraer S.A. airplanes, as specified in paragraphs (a)(1) thru (a)(3) of this AD.

(1) Model ERJ 170-100 LR, ERJ 170-100 SE, ERJ 170-100 STD, ERJ 170-100 SU, ERJ 170-200 LL, ERJ 170-200 LR, ERJ 170-200 STD, and ERJ 170-200 SU airplanes, as identified in Embraer Service Bulletin N. 170-53-0142, revision 01, dated December 12, 2018.

(2) Model ERJ 190-100STD, ERJ 190-100 LR, ERJ 190-100 IGW, ERJ 190-100 SR, ERJ 190-200STD, ERJ 190-200 LR, and ERJ 190-200 IGW airplanes, as identified in Embraer Service Bulletin N. 190-53-0098, revision 01, dated December 12, 2018.

(3) Model ERJ 190-100 ECJ airplanes, as identified in Embraer Service Bulletin N. 190LIN-53-0072, revision 01, dated January 09, 2019.

CANCELLATION / REVISION:

Not applicable.

REASON:

It has been found the occurrence some events of the Ram Air Turbine (RAT) compartment door seal peeling off and tangling up on the RAT rotor during flight test. We are issuing this AD to prevent the loss of the RAT function, which associated with an emergency electrical event, can result in the loss of airplane controllability.

Since this condition may occur in other airplanes 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:

Inspection and rework of the RAT compartment door seal attachment.

COMPLIANCE:

Required as indicated below, unless already accomplished.

(b) Inspection and rework.

(1) For airplanes identified in paragraphs **(a)(1)** and **(a)(2)** of this AD, within the next 750 flight hours (FH) after the effective date of this AD, carry out a General Visual Inspection (GVI) on the RAT compartment door seal for peeling-off condition, bonding it as necessary. Rework the RAT compartment door seal attachment installing the recommended rivets and washers listed in the service documents identified in the paragraph **(e)** of this AD, as applicable.

(2) For airplanes identified in paragraph **(a)(3)** of this AD, within the next 400 FH or 6 months after the effective date of this AD, whichever occurs first, carry out a GVI on the RAT compartment door seal for peeling-off condition and bonding it as necessary. Rework the RAT compartment door seal attachment installing the recommended rivets and washers listed in the service documents identified in the paragraph **(e)** of this AD, as applicable.

(c) Credit for previous actions.

This paragraph provides credit for the actions specified in paragraph **(b)(1)** and **(b)(2)** of this AD, if those actions were performed before the effective date of this AD using Embraer Service Bulletin N. 170-53-0142, original issue, dated December 08, 2017, or Embraer Service Bulletin N. 190-53-0098, original issue, dated December 08, 2017, or Embraer Service Bulletin N. 190LIN-53-0072, original issue, dated December 15, 2017, as applicable.

(d) Alternative methods of compliance (AMOCs).

A different method or a different compliance time, with the requirements of this AD, may be used if approved by the General Manager of the Aeronautical Product Certification Branch (Gerência-Geral de Certificação de Produtos Aeronáuticos – GGCP).

(e) Service information.

You must use Embraer Service Bulletin N. 170-53-0142, revision 01, dated December 12, 2018, or Embraer Service Bulletin N. 190-53-0098, revision 01, dated December 12, 2018, or Embraer Service Bulletin N. 190LIN-53-0072, revision 01, dated January 09, 2019; as applicable, or further revisions approved by the ANAC, to do the actions required by this AD.

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

CONTACT:

For additional technical information, 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).