


EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No : 2007-0265</p> <p>Date: 09 October 2007</p>
No person may operate an aircraft to which an Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive unless otherwise agreed with the Authority of the State of Registry.	
Type Approval Holder's Name : Empresa Brasileira de Aeronáutica S.A.	Type/Model designation(s) : EMB-135 (except -135BJ) and EMB-145 series
TCDS Number: EASA IM.A.032; Agência Nacional de Aviação Civil (ANAC - Brazil) EA-9606	
Foreign AD: This AD is related to, and prompted by ANAC AD Nr. 2007-08-02.	
Replacement: For aircraft that operate under EU Regulations, the requirements of this AD take precedence over those contained in ANAC AD 2007-08-02.	
ATA 28	Fuel System - Fuel Tank System Airworthiness Limitations (AWL) - Implementation
Manufacturer(s):	Empresa Brasileira de Aeronáutica, S.A. (EMBRAER)
Applicability:	<p>Model EMB-145, EMB-145EP, EMB-145ER, EMB-145EU, EMB-145LR, EMB-145LU, EMB-145MK, EMB-145MP, EMB-135ER and EMB-135LR aircraft, all serial numbers.</p> <p>Note 1: Because the Models EMB-135KE, EMB-135KL, EMB-145MR and EMB-145XR have not been validated in Europe at this time, no aircraft operated under EU regulations and/or registered in EU Member States are affected. For that reason, this AD cannot be applied to those aircraft.</p> <p>Note 2: The applicability statement of ANAC AD 2007-08-02 includes a Note, excluding aircraft modified in accordance with Brazilian Supplemental Type Certificate (CHST) Nos. 2002S06-09, 2002S06-10 or 2003S08-01. None of these STCs have been validated in Europe at this time.</p>
Reason:	<p>ANAC has issued a new airworthiness directive (AD) for all Embraer Model EMB-135 and EMB-145 series aircraft. This AD requires revising the approved maintenance plan by incorporating new airworthiness limitations (AWLs) for fuel tank systems to satisfy the RBHA-E88 (equivalent to FAA SFAR-88) requirements. This AD results from a design review of the fuel tank systems. ANAC has issued this AD to prevent the potential for ignition sources inside fuel tanks caused by latent failures, alterations, repairs, or maintenance actions, which, in combination with flammable fuel vapours, could result in a fuel tank explosion and consequent loss of the airplane.</p> <p>ANAC AD Nr. 2007-08-02 (copy attached) mandates the Fuel System Limitation</p>

	<p>Items, including the Critical Design Configuration Control Limitations (CDCCL), for EMB-135 and EMB-145 series aircraft with a final compliance time of 31 December 2008. However, Embraer has voluntarily anticipated and respected the “EASA policy statement on the process for developing instructions for maintenance and inspection of fuel tank ignition source prevention” [EASA D 2005/CPRO, later revised EASA D 2006/CPRO, 8 March 2006] by publishing the Fuel System Limitation Items in Embraer Maintenance Review Board Report (MRBR), Document No. MRB-145/1150 Revision 10, dated 04 August 2006.</p> <p>The EASA compliance time schedule is considered to be a straightforward application of Regulation (EC) No 2042/2003 Part M.A.302 in relation to the publication of the Airworthiness Limitations (including CDCCL) by Embraer in document No. MRB-145/1150. According to Part M.A.302(f) and (g), operators should have been aware of these Fuel Airworthiness Limitations as published by Embraer and implemented these into their aircraft maintenance programme as a result of the required annual review.</p> <p>With this EASA AD, EASA endorses the technical content of the ANAC AD 2007-08-02. However, in deviation from the ANAC AD, EASA requires the incorporation of the relevant tasks into the aircraft maintenance programme before 01 December 2007.</p>
Effective Date:	23 October 2007
Compliance:	<p>EASA endorses the technical content of ANAC AD 2007-08-02, which is attached as an appendix to this directive, except regarding paragraphs (a) and (b) of that document, which must be applied as follows:</p> <p>(a) Before 01 December 2007, revise the approved maintenance program to incorporate the tasks presented in the Appendix 2, Section A2.5.2: Fuel System Limitation Items, as shown in the MRB-145/1150 Revision 10, dated 04 Aug. 2006;</p> <p>(b) Before 01 December 2007, revise the approved maintenance program to incorporate items 1), 2) and 3) of the Appendix 2, Section A2.4: Critical Design Configuration Control Limitations (CDCCL), as shown in the MRB-145/1150 Revision 10, dated 04 Aug. 2006;</p> <p>Accomplishing the revision in accordance with a later revision of Embraer document No. MRB-145/1150 is an acceptable method of compliance if the revision is approved by EASA directly or through Agency Decision 2004/03/CF by ANAC (formerly identified as DAC/CTA).</p>
Ref. Publications:	Embraer Maintenance Review Board Report (MRBR), Document No. MRB-145/1150 Revision 10, dated 04 August 2006.
Remarks :	<ol style="list-style-type: none"> 1. If requested and appropriately substantiated, EASA can accept Alternative Methods of Compliance for this AD. 2. This AD was posted on 30 August 2007 as PAD 07-161 for consultation until 28 September 2007. No comments were received during the consultation period. 3. Enquiries regarding this AD should be referred to the AD Focal Point - Certification Directorate, EASA. E-mail: ADs@easa.europa.eu . 4. For any question concerning the technical content of the requirements in this AD, please contact: Embraer – Empresa Brasileira de Aeronáutica S.A., Technical Publications, Av. Brig. Faria Lima, 2170. São José Dos Campos - SP - 12227-901 Brasil ; Fax: ++ 55 12 3927-7546 e-mail: distrib@embraer.com.br



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL – BRAZIL

BRAZILIAN AIRWORTHINESS DIRECTIVE

AD No.: 2007-08-02

Effective Date: 27 Sep. 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. 2007-08-02 - EMBRAER - Amendment 39-1195.

APPLICABILITY:

This Airworthiness Directive is applicable to Embraer EMB-145, EMB-145ER, EMB-145EU, EMB-145EP, EMB-145LR, EMB-145LU, EMB-145MR, EMB-145MP, EMB-145MK, EMB-145XR, EMB-135ER, EMB-135LR, EMB-135KE and EMB-135KL aircraft models in operation.

NOTE: This AD is not applicable to EMB-145LR aircraft model modified according to Brazilian Supplemental Type Certificate (CHST) Nos. 2002S06-09, 2002S06-10 or 2003S08-01.

CANCELLATION / REVISION:

Not applicable.

REASON:

Fuel system reassessment, performed according to RBHA-E88/SFAR-88, requires the inclusion of new maintenance tasks in the Critical Design Configuration Control Limitations (CDCCL) and in the Fuel System Limitations (FSL), necessary to preclude ignition sources in the fuel system.

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:

Updating of the aircraft approved maintenance plan according to the Maintenance Review Board Report (MRBR).

COMPLIANCE:

Required as indicated below, unless already accomplished.

- (a) Before 31 Dec. 2008, alter the aircraft approved maintenance plan to include the tasks and their implementation plan presented in the Appendix 2, Section A2.5.2: Fuel System Limitation Items, as shown in the MRB-145/1150 Revision 10, dated 04 Aug. 2006, or further revisions approved by ANAC, with the intervals stated in that document.
- (b) Within the next 90 days after the effective date of this AD, alter the aircraft approved maintenance plan to include items 1, 2 and 3 of the Appendix 2, Section A2.4: Critical Design Configuration Control Limitations (CDCCL), as shown in the MRB-145/1150 Revision 10, dated 04 Aug. 2006, or further revisions approved by ANAC, with the restrictions imposed by that document.

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

CONTACT:

For additional technical information, contact:

National Agency of Civil Aviation (ANAC)
Aeronautical Products Certification Branch (GGCP)
Praça Mal. Eduardo Gomes, Nº 50, Vila das Acácias (Prédio do CTA-IFI)
Fax: 55 (12) 3941-4766
12228-901 – São José dos Campos - SP, BRAZIL
E-mail: pds@ifi.cta.br

For acquisition, contact:

National Agency of Civil Aviation (ANAC)
Publications Branch
R. Santa Luzia, 651, 2º Mezanino, Centro
Fax: 55 (21) 3814-6929
20030-040 – Rio de Janeiro - RJ, BRAZIL.
E-mail: publicacoes@anac.gov.br

APPROVAL:

CLÁUDIO PASSOS SIMÃO
General Manager
GGCP

MILTON ZUANAZZI
Director-President
ANAC

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