



SERVIÇO PÚBLICO FEDERAL

DEPARTAMENTO DE AVIAÇÃO CIVIL

# BRAZILIAN AIRWORTHINESS DIRECTIVE

EFFECTIVE DATE

28 Mar. 2005

AD No.:

2004-11-07R1

The following Airworthiness Directive (AD), issued by the Departamento de Aviação Civil (DAC) 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. 2004-11-07R1- EMBRAER - Amendment 39-1071.**

### **APPLICABILITY:**

This Airworthiness Directive is applicable to all Embraer ERJ-170() aircraft models in operation.

### **CANCELLATION / REVISION:**

This AD cancels and supersedes the AD No. 2004-11-07, original issue – Amdt 39-1061, dated 09 Dec. 2004, and is being issued to include a terminal action.

### **REASON:**

It has been found that a particular failure mode of the aircraft ice detection system is not adequately tested by the software of the PRIMUS EPIC Modular Avionics Unit, which can allow the operation of the aircraft without the required ice protection.

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:**

Ice detection system operational test.

### **COMPLIANCE:**

Required as indicated below, unless already accomplished.

- (a) Within the next 100 flight hours after 09 Dec. 2004, the effective date of the original issue of this AD, or when the aircraft accumulates 1000 total flight hours, whichever occurs later, execute an ice detection system operational test, according to AMM TASK 30-81-01-710-801-A.
- (b) Repeat the test of item (a) above at intervals of no more than 1000 flight hours.
- (c) The installation of the Primus Epic system software Load 15.3 or higher, according to the detailed instructions and procedures described in the Embraer Service Bulletin No. 170-31-0002, original issue, or further revisions approved by the CTA, constitutes a terminal action to the ice detection system operational tests required by items (a) and (b) above.

The detailed instructions and procedures to accomplish this AD are described in the Embraer Service Bulletins Nos. 170-30-0001, original issue, and 170-31-0002, original issue, or further revisions approved by the CTA.

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

**CONTACT:**

For additional technical information, contact:

Centro Técnico Aeroespacial - CTA  
Instituto de Fomento e Coordenação Industrial - IFI  
Divisão de Certificação de Aviação Civil - CAVC  
Praça Mal. Eduardo Gomes, 50 - Vila das Acácias  
Caixa Postal 6001  
Fax: 55 (12) 3941-4766  
12231-970 - São José dos Campos - SP, BRAZIL.  
e-mail: pds@ifi.cta.br

For acquisition, contact:

Departamento de Aviação Civil - DAC  
Seção de Publicações do DAC (4GAB-4)  
R. Santa Luzia, 651, 2º Mezanino, Centro  
Fax: 55 (21) 3814-6929  
20030-040 - Rio de Janeiro - RJ, BRAZIL.  
e-mail: publicacoes@dac.gov.br

**APPROVAL:**

GERALDO CURCIO NETO - Ten Cel Av  
Chief of the Civil Aviation Certification Division  
IFI/CTA

LUIZ ALBERTO C. MUNARETTO - Cel Av  
Director of the Industrial Coordination and Fostering Institute  
CTA

**NOTE:** Original in Portuguese language signed and available in the files of the Registro Geral de Aeronavegabilidade (RGA/TE-1/STE) of the Departamento de Aviação Civil.